

# PATENT ABSTRACTS OF JAPAN

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## (54) PENEM DERIVATIVE, PRODUCTION AND USE THEREOF

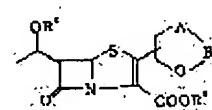
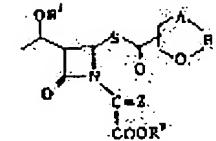
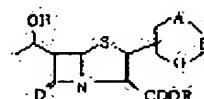
### (57) Abstract:

**NEW MATERIAL:** A compound shown by the formula I (R is H or allyl; A is O or methylene; B is methylene, ethylene, or carbonyl) or its salt.

**EXAMPLE:** (1' R, 2''S, 5R, 6S)-2-(1'-hydroxyethyl)-2-(2''-tetrahydrofuranyl) penem-3- carboxylic acid allyl ester.

**USE:** Having extremely excellent effect on remedy of infectious diseases of Gram-positive and Gram-negative bacteria, etc., useful not only as a drug but also as an animal drug widely.

**PREPARATION:** For example, a phosphorus ylide compound shown by the formula II (R1 is hydroxy-protecting group; R2 is aryl, or carboxy-protecting group; Z is triarylphosphonio) is heated to give a compound shown by the formula III and optionally the protecting groups R1 and R2 are removed to give a compound shown by the formula I.



### LEGAL STATUS

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